

RCBO 1P+N 6kA C-6A 100mA AC

Architecture

Neutral position	right
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	C

Main electrical features

Frequency	50 Hz
Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	6 kA
Rated operational voltage U_e	240 V

Voltage

Rated insulation voltage	500 V
Max operating voltage	240 V
Rated impulse withstand voltage	4000 V

Electric current

Rated residual operating current	100 mA
Withstand not tripping on 8-20 μ s wave	250 A
Rated short circuit breaking capacity I_{cn} under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 230V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 240V AC IEC 60947-2	6 kA
Breaking and opening capacity	6 kA
Magnetic regulating current at 40° C	5/10 I_n
min/maxi threshold value of the AC thermal operation	1,13/1,45 I_n

Electric current / temperature

Rating current -15°C	7 A
Rating current -20°C	7,1 A
Rating current 0°C	6,7 A
Rating current 10°C	6,5 A
Rating current -10°C	6,9 A
Rating current 15°C	6,4 A
Rating current 20°C	6,2 A
Rating current 25°C	6,1 A
Rating current -25°C	7,2 A
Rating current 30°C	6 A
Rating current 35°C	5,9 A
Rating current 40°C	5,8 A
Rating current 45°C	5,7 A
Rating current 5°C	6,6 A
Rating current -5°C	6,8 A
Rating current 50°C	5,6 A
Rating current 55°C	5,5 A
Rating current 60°C	5,4 A

Current correction factors

Correction factor of rating current for 2 devices placed 1 side-by-side	
Correction factor of rating current for 3 devices placed 0,95 side-by-side	
Correction factor of rating current for 4 and 5 devices 0,9 placed side-by-side	
Correction factor of rating current for 6 devices placed 0,85 side-by-side	

Selectivity

Minimal rating current of upstream aM fuse for selectivity on short-circuit	8 A
Minimal rating current of upstream gL fuse for selectivity on short-circuit	12 A
Maximal rating current of downstream aM fuse for selectivity on short-circuit	1 A
Maximal rating current of downstream gL fuse for selectivity on short-circuit	4 A

Power

Power loss per pole at In	1,7 W
Total power loss under IN	1,9 W

Tripping

Protected against nuisance tripping	no
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Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	2000

Dimensions

Depth of installed product	68 mm
Height of installed product	83 mm
Width of installed product	35 mm

Connection

Connection cross-section at output with screw, for flexible conductor	1/16 mm ²
Connection cross-section of the access with screws, with flexible conductor	1/16 mm ²
Connection cross-section at output with screw, for massive conductor	1/25 mm ²
Connection cross-section for rigid conductor, upstream terminals with screws	1/25 mm ²
Connection cross-sect. rigid cable	1 / 25mm ²
Connection cross-sect. flexible conductor	1 / 16mm ²
Type of connection	with screw

Standards

Standard text	IEC 61009-1
European directive WEEE	not concerned

Safety

Protection index IP	IP20
Residual current type	AC

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Storage temperature	-25 to 70 °C
Air humidity protection	for all climates

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Temperature of calibration	30 °C
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